

## CLAIMS

We claim:

- 1           1.     A clutch disk for a friction clutch, said clutch disk comprising:  
2               a friction lining carrier which can be mounted for rotation about an axis;  
3               at least one friction lining element connected to said friction lining carrier  
4               for rotation in common with said friction lining carrier, said at least one friction lining  
5               element being displaceable circumferentially with respect to said carrier by a limited  
6               amount;  
7               a restoring arrangement which preloads said at least one friction lining  
8               element against circumferential displacement with respect to said friction lining carrier;  
9               and  
10              means for generating a friction force which opposes displacement of said  
11              at least one friction lining element with respect to said friction lining carrier.
- 1           2.     A clutch disk as in claim 1 wherein each said friction lining element  
2               has a friction surface and an oppositely facing rear surface which rests against an axial  
3               support surface of said friction lining carrier to generate said friction force.
- 1           3.     A clutch disk as in claim 2 wherein each said friction lining element  
2               comprises a carrier plate which carries a friction lining, said rear surface being provided  
3               by said carrier plate.

1                   4.     A clutch disk as in claim 1 further comprising an axial pretensioning  
2     arrangement assigned to each said friction lining element and pretensioning the friction  
3     lining element in such a way that the friction force is reduced when the clutch disk is not  
4     engaged.

1                   5.     A clutch disk as in claim 4 wherein the axial pretensioning  
2     arrangement comprises at least one spring element.

1                   6.     A clutch disk as in claim 5 wherein said at least one spring element  
2     is provided on the at least one friction lining element.

1                   7.     A clutch disk as in claim 5 further comprising a friction element  
2     interposed between said at least one spring element and said friction lining element,  
3     said friction element being displaceable essentially only axially with respect to with  
4     respect to said friction lining carrier.

1                   8.     A clutch disk as in claim 1 wherein each said friction lining element  
2     has a radially outer area, said friction lining carrier comprising at least one radial  
3     retaining projection extending axially over each said radially outer area.

1                   9.     A clutch disk as in claim 1 wherein each said friction lining element  
2     has a radially outer area, said clutch disk further comprising at least one holding

3 component holding each said friction lining element axially on the friction lining carrier,  
4 each said holding component having a radial retaining portion extending axially over  
5 each said radially outer area.

1 10. A clutch disk as in claim 1 wherein said friction lining carrier  
2 comprises at least one opening adjacent to each said friction lining element, each said  
3 friction lining element having at least one radial retaining projection which engages a  
4 respect said at least one opening .

1 11. A clutch disk as in claim 1 wherein each said friction lining element  
2 has a pair of circumferentially opposed end areas, said restoring arrangement  
3 comprising restoring elements which act on respective said end areas.

1 12. A clutch disk as in claim 1 wherein each said restoring element  
2 comprises a first support area, which engages the friction lining carrier, and a second  
3 support area, which engages a respective said end area, said first and second support  
4 areas holding said at least one friction lining element axially with respect to said friction  
5 lining carrier.

1 13. A clutch disk as in claim 12 wherein each said first support area  
2 comprises a retaining opening which engages said carrier, and each said second

3 support area comprises at least one retaining opening which engages said friction lining  
4 element.

1 14. A clutch disk as in claim 11 wherein at least one of said restoring  
2 elements comprises a leaf spring.

1 15. A clutch disk as in claim 14 each said at least one of said restoring  
2 elements comprises a plurality of leaf springs and a pair of retaining elements holding  
3 said leaf springs together.

1 16. A clutch disk as in claim 15 wherein said retaining elements are  
2 supported on said friction lining carrier.

1 17. A clutch disk as in claim 11 wherein said friction lining carrier  
2 comprises recesses which receive respective said restoring elements, each said recess  
3 having a holding area which conforms to said restoring element.

1 18. A clutch disk as in claim 17 further comprising axial retaining  
2 components attached to the friction lining carrier to hold the at least one friction lining  
3 element axially in place.

1                    19.    A clutch disk as in claim 11 further comprising axial retaining  
2 components attached to the friction lining carrier to hold the at least one friction lining  
3 element axially in place, each said restoring element being provided on one of said axial  
4 retaining components.

1                    20.    A clutch disk as in claim 2 further comprising a friction increasing  
2 layer provided on one of said rear surface of each said friction lining element and each  
3 said axial support surface of said friction lining carrier.

1                    21.    A clutch disk as in claim 21 wherein each said friction increasing  
2 layer comprises a scatter sintered layer.